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EEEEEEEEEEEEEEEEEE DDDDDDDDDDDDDDD TTTTTTTTTTTTTTTT
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EXE

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```
0001 0 %TITLE 'EDT$GETXLATE - Handles the nokeypad XLATE command'
0002 0 MODULE EDT$GETXLATE ( ! nokeypad XLATE command
0003 0 IDENT = 'V04-000' ! File: GETXLATE.B32 Edit: JBS1007
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 Handles the nokeypad XLATE command by setting up descriptor
0037 1 and passing string to user supplied XLATE. String
0038 1 returned from XLATE is placed in the command buffer
0039 1 for execution.
0040 1
0041 1
0042 1 ENVIRONMENT: Runs on Vax/Vms
0043 1
0044 1 AUTHOR: Shelly T. Solomon, CREATION DATE: 12-Jul-1982
0045 1
0046 1 MODIFIED BY:
0047 1
0048 1 1-001 - Original. STS 14-Aug-1982
0049 1 1-002 - Return status of 1 rather than success status. STS 16-Aug-1982
0050 1 1-003 - Save command buffer and allocate our own. STS 25-Aug-1982
0051 1 1-004 - Unpack descriptor correctly. STS 13-Oct-1982
0052 1 1-005 - Don't forget to deallocate heap storage. JBS 14-Jun-1983
0053 1 1-006 - Don't try to execute a 0-length returned string. JBS 14-Jun-1983
0054 1 1-007 - Don't print status just because no returned string. JBS 17-Jun-1983
0055 1 --
0056 1
```

EDT\$GETXLATE
V04-000

EDT\$GETXLATE - Handles the nokeypad XLATE comma
Declarations

L 6
16-Sep-1984 00:30:30
14-Sep-1984 12:23:15

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]GETXLATE.B32;1 Page 2 (2)

**F1

```

: 58      0057 1 %SBTTL 'Declarations'
: 59      0058 1
: 60      0059 1 : TABLE OF CONTENTS:
: 61      0060 1
: 62      0061 1
: 63      0062 1 REQUIRE 'EDTSRC:TRAROUNAM';
: 64      0501 1
: 65      0502 1 FORWARD ROUTINE
: 66      0503 1     EDT$$GET_XLATE;
: 67      0504 1
: 68      0505 1
: 69      0506 1 : LINKAGES
: 70      0507 1
: 71      0508 1
: 72      0509 1 LINKAGE
: 73      0510 1     IOCALL = CALL (REGISTER = 1);
: 74      0511 1
: 75      0512 1
: 76      0513 1 : INCLUDE FILES:
: 77      0514 1
: 78      0515 1
: 79      0516 1 REQUIRE 'EDTSRC:EDTREQ';
: 80      0651 1
: 81      0652 1 REQUIRE 'EDTSRC:SYSSYM';
: 82      0682 1
: 83      0683 1
: 84      0684 1 : MACROS:
: 85      0685 1
: 86      0686 1 :     NONE
: 87      0687 1
: 88      0688 1 : EQUATED SYMBOLS:
: 89      0689 1
: 90      0690 1 :     NONE
: 91      0691 1
: 92      0692 1 : OWN STORAGE:
: 93      0693 1
: 94      0694 1 :     NONE
: 95      0695 1
: 96      0696 1 : EXTERNAL REFERENCES:
: 97      0697 1
: 98      0698 1 : in the routine
: 99      0699 1

```

```
101 0700 1 %SBTTL 'EDT$$GETXLATE - nokeypad XLATE command'
102 0701 1
103 0702 1 GLOBAL ROUTINE EDT$$GET_XLATE (
104 0703 1     STRING,
105 0704 1     LENGTH
106 0705 1 ) =
107 0706 1
108 0707 1 ++
109 0708 1 FUNCTIONAL DESCRIPTION:
110 0709 1
111 0710 1     This is the routine called to handle the nokeypad XLATE command
112 0711 1     It sets up a descriptor with the passed string and calls the
113 0712 1     user supplied XLATE. The returned string is placed in the
114 0713 1     command buffer to be processed.
115 0714 1
116 0715 1 FORMAL PARAMETERS:
117 0716 1
118 0717 1     STRING The string following the XLATE keyword to be passed to
119 0718 1     the XLATE routine.
120 0719 1
121 0720 1     LENGTH Length of above string
122 0721 1
123 0722 1 IMPLICIT INPUTS:
124 0723 1
125 0724 1     EDT$$A_CMD_BUF address of the command buffer
126 0725 1
127 0726 1     EDT$$A_CMD_END address of the command buffer end
128 0727 1
129 0728 1 IMPLICIT OUTPUTS:
130 0729 1
131 0730 1     NONE
132 0731 1
133 0732 1 COMPLETION STATUS:
134 0733 1
135 0734 1     1 = OK, 0 = error in command; message printed
136 0735 1
137 0736 1 SIDE EFFECTS:
138 0737 1
139 0738 1     Adds commands into the command buffer
140 0739 1
141 0740 1 --
142 0741 1
143 0742 2 BEGIN
144 0743 2
145 0744 2 EXTERNAL ROUTINE
146 0745 2     EDT$$SCHM_PAREXE,
147 0746 2     EDT$$MSG_BELL,
148 0747 2     EDT$$ALO_HEAP,
149 0748 2     EDT$$DEA_HEAP : NOVALUE,
150 0749 2     STR$FREET_DX;
151 0750 2
152 0751 2 EXTERNAL
153 0752 2     EDT$$A_XLATE_ROUT,
154 0753 2     EDT$$G_XLATE_ENV,
155 0754 2     EDT$$T_CMD_BUF,
156 0755 2     EDT$$A_CMD_BUF,
157 0756 2     EDT$$A_CMD_END;

! Nokeypad XLATE command
! Address of string to be XLATEd
! Length of that string

! Parse and execute a command
! Output a message with bell
! Allocate heap storage
! Deallocate heap storage
! Free a string

! Address of XLATE routine
! Environment address for XLATE
! Command buffer
! Current location in command buffer
! End of command buffer
```



```
158 0757 2
159 0758 2
160 0759 2
161 0760 2
162 0761 2
163 0762 2
164 0763 2
165 0764 2
166 0765 2
167 0766 2
168 0767 2
169 0768 2
170 0769 2
171 0770 2
172 0771 2
173 0772 2
174 0773 2
175 0774 2
176 0775 2
177 0776 2
178 0777 2
179 0778 2
180 0779 2
181 0780 2
182 0781 2
183 0782 2
184 0783 2
185 0784 2
186 0785 2
187 0786 2
188 0787 2
189 0788 3
190 0789 3
191 0790 3
192 0791 3
193 0792 3
194 0793 3
195 0794 2
196 0795 2
197 0796 2
198 0797 2
199 0798 2
200 0799 2
201 0800 2
202 0801 3
203 0802 3
204 0803 3
205 0804 3
206 0805 3
207 0806 3
208 0807 3
209 0808 3
210 0809 4
211 0810 3
212 0811 4
213 0812 4
214 0813 4
```

```
MESSAGES ((INVSUBCOM, INSMEM, COMEXHXL, PASSTATUS));

LOCAL
    SAVE_CMD_BUF,
    SAVE_CMD_END,
    NEW_CMD_BUF : REF VECTOR [, BYTE],
    CMD_DESC : BLOCK [8, BYTE],
    STATUS;

    CMD_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
    CMD_DESC [DSC$B_CLASS] = DSC$K_CLASS_D;
    CMD_DESC [DSC$A_POINTER] = 0;
    CMD_DESC [DSC$W_LENGTH] = 0;
    STRING_DESC (CMD_DESC, LENGTH, .STRING);    ! build descriptor

+ The following call to the XLATE routine is a general routine call
  using the linkage defined as IOCALL.  A call is being made to the
  routine whose address is contained in the variable EDT$$A_XLATE_ROUT.
  The contents of the variable EDT$$G_XLATE_ENV is first put into
  register 1 for the call.  (This is done to fill the requirement of
  callable EDT where the user can specify an XLATE routine and some
  high-level languages require an environment address to be passed in
  register 1.) The remaining parameter in the list is the actual
  parameter passed to the XLATE routine.
-
    STATUS = IOCALL (.EDT$$A_XLATE_ROUT, .EDT$$G_XLATE_ENV, CMD_DESC);
+
  If the returned status is bad print the indicated message.
-
    IF ( NOT .STATUS)
    THEN
    BEGIN
        EDT$$MSG BELL (.STATUS);
        STR$FREET_DX (CMD_DESC);
        RETURN (0);
    END;
+
  Returned status is good.  If there is a command string returned
  execute it.
-
    IF (.CMD_DESC [DSC$W_LENGTH] GTRU 0)
    THEN
    BEGIN
+
  Make sure there's enough room in the command buffer for the
  resulting command.
-
    IF (.CMD_DESC [DSC$W_LENGTH] GTRU 256)
    THEN
    BEGIN
        EDT$$MSG BELL (EDT$ COMEXHXL);
        STR$FREET_DX (CMD_DESC);
```

```

215 0814 4      RETURN (0);
216 0815 4      END;
217 0816 4
218 0817 4      +
219 0818 4      - Copy the returned string into 256 bytes of heap storage.
220 0819 4      -
221 0820 4
222 0821 4      IF EDT$$ALO_HEAP (%REF (256), NEW_CMD_BUF)      !
223 0822 4      THEN
224 0823 4      CH$MOVE (.CMD_DESC [DSC$W_LENGTH], .CMD_DESC [DSC$A_POINTER], .NEW_CMD_BUF)
225 0824 4      ELSE
226 0825 4      BEGIN
227 0826 4      EDT$$MSG BELL (EDT$_INSMEM);
228 0827 4      RETURN (0);
229 0828 4      END;
230 0829 4
231 0830 4      +
232 0831 4      - Save the current command buffer pointers.
233 0832 4      -
234 0833 4      SAVE_CMD_BUF = .EDT$$A_CMD_BUF;
235 0834 4      SAVE_CMD_END = .EDT$$A_CMD_END;
236 0835 4      +
237 0836 4      - Point to the new command buffer.
238 0837 4      -
239 0838 4      EDT$$A_CMD_BUF = .NEW_CMD_BUF;
240 0839 4      EDT$$A_CMD_END = .CMD_DESC [DSC$W_LENGTH] + .EDT$$A_CMD_BUF;
241 0840 4      +
242 0841 4      - Now parse and execute the XLATE-returned string.
243 0842 4      -
244 0843 4      STATUS = EDT$$CHM_PAREXE (1);
245 0844 4      +
246 0845 4      - Restore the command buffer.
247 0846 4      -
248 0847 4      EDT$$A_CMD_BUF = .SAVE_CMD_BUF;
249 0848 4      EDT$$A_CMD_END = .SAVE_CMD_END;
250 0849 4      +
251 0850 4      - Free XLATE's command buffer.
252 0851 4      -
253 0852 4      EDT$$DEA_HEAP (%REF (256), NEW_CMD_BUF);
254 0853 4      END;
255 0854 4      +
256 0855 4      - We no longer need the returned string.
257 0856 4      -
258 0857 4      -
259 0858 4      STR$FREE1 DX (CMD_DESC);
260 0859 4      RETURN (1);
261 0860 1      END;
```

! of routine EDT\$\$GET_XLATE

```
.TITLE  EDT$GETXLATE EDT$GETXLATE - Handles the nokeypa
        d XLATE comma
```

```
.IDENT  \V04-000\
```

```
.EXTRN  EDT$$CHM_PAREXE
.EXTRN  EDT$$MSG_BELL, EDT$$ALO_HEAP
.EXTRN  EDT$$DEA_HEAP, STR$FREET_DX
.EXTRN  EDT$$A_XLATE_ROUT
```


				07FC 00000			
		5A	00000000G	00	9E	00002	
		59	00000000G	00	9E	00009	
		58	00000000G	00	9E	00010	
		57	00000000G	00	9E	00017	
		5E		10	C2	0001E	
08		AE	020E0000	8F	D0	00021	
			0C	AE	D4	00029	
			04	AC	DD	0002C	
			08	AC	9F	0002F	
			10	AE	9F	00032	
00000000G	00			03	FB	00035	
	50	00000000G	00	D0	0003C		
		08		AE	9F	00043	
	51	00000000G	00	D0	00046		
	60		01	FB	0004D		
	56		50	D0	00050		
	04		56	E8	00053		
			56	DD	00056		
			13	11	00058		
		08		AE	B5	0005A	1\$:
			7A	13	0005D		
0100	8F	08		AE	B1	0005F	
			11	1B	00065		
		00000000G	8F	DD	00067		
	69		01	FB	0006D		2\$:
		08		AE	9F	00070	
	6A		01	FB	00073		
			6B	11	00076		
		04		AE	9F	00078	3\$:
04	AE	0100	8F	3C	0007B		
		04		AE	9F	00081	
00000000G	00		02	FB	00084		
	09		50	E9	0008B		
04	BE	0C	BE	08	AE	28	0008E
			0B	11	00095		
		00000000G	8F	DD	00097		4\$:
	69		01	FB	0009D		
			41	11	000A0		
	53		67	D0	000A2		5\$:
	52		68	D0	000A5		
	67	04	AE	D0	000A8		
	50	08	AE	3C	000AC		
68	50		67	C1	000B0		
			01	DD	000B4		
00000000G	00		01	FB	000B6		
	56		50	D0	000BD		
	67		53	D0	000C0		

	.EXTRN	EDT\$\$G_XLATE_ENV	
	.EXTRN	EDT\$\$T_CMD_BUF, EDT\$\$A_CMD_BUF	
	.EXTRN	EDT\$\$A_CMD_END, EDT\$ INVSUBCOM	
	.EXTRN	EDT\$ INSMEM, EDT\$ COMEXHXLA	
	.EXTRN	EDT\$_PASSTATUS, STR\$COPY_R	
	.PSECT	_EDT\$CODE, NOWRT, SHR, PIC, 2	
	.ENTRY	EDT\$\$GET_XLATE, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10	0702
	MOVAB	STR\$FREE1_DX, R10	
	MOVAB	EDT\$\$MSG_BELL, R9	
	MOVAB	EDT\$\$A_CMD_END, R8	
	MOVAB	EDT\$\$A_CMD_BUF, R7	
	SUBL2	#16, SP	
	MOVL	#34471936, CMD_DESC	0770
	CLRL	CMD_DESC+4	0769
	PUSHL	STRING	0771
	PUSHAB	LENGTH	
	PUSHAB	CMD_DESC	
	CALLS	#3, STR\$COPY_R	
	MOVL	EDT\$\$A_XLATE_ROUT, R0	0783
	PUSHAB	CMD_DESC	
	MOVL	EDT\$\$G_XLATE_ENV, R1	
	CALLS	#1, (R0)	
	MOVL	R0, STATUS	
	BLBS	STATUS, 1\$	0788
	PUSHL	STATUS	0791
	BRB	2\$	
	TSTW	CMD_DESC	0801
	BEQL	6\$	
	CMPW	CMD_DESC, #256	0809
	BLEQU	3\$	
	PUSHL	#EDT\$ COMEXHXLA	0812
	CALLS	#1, EDT\$\$MSG_BELL	
	PUSHAB	CMD_DESC	0813
	CALLS	#1, STR\$FREE1_DX	
	BRB	7\$	0814
	PUSHAB	NEW_CMD_BUF	0821
	MOVZWL	#256, 47SP)	
	PUSHAB	4(SP)	
	CALLS	#2, EDT\$\$ALO_HEAP	
	BLBC	R0, 4\$	
	MOVC3	CMD_DESC, @CMD_DESC+4, @NEW_CMD_BUF	0823
	BRB	5\$	
	PUSHL	#EDT\$ INSMEM	0826
	CALLS	#1, EDT\$\$MSG_BELL	
	BRB	7\$	0827
	MOVL	EDT\$\$A_CMD_BUF, SAVE_CMD_BUF	0833
	MOVL	EDT\$\$A_CMD_END, SAVE_CMD_END	0834
	MOVL	NEW_CMD_BUF, EDT\$\$A_CMD_BUF	0838
	MOVZWL	CMD_DESC, R0	0839
	ADDL3	EDT\$\$A_CMD_BUF, R0, EDT\$\$A_CMD_END	
	PUSHL	#1	0843
	CALLS	#1, EDT\$\$CHM_PAREXE	
	MOVL	R0, STATUS	
	MOVL	SAVE_CMD_BUF, EDT\$\$A_CMD_BUF	0847

EDT\$GETXLATE
V04-000

EDT\$GETXLATE - Handles the nokeypad XLATE comma
EDT\$\$GETXLATE - nokeypad XLATE command

D 7
16-Sep-1984 00:30:30
14-Sep-1984 12:23:15

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]GETXLATE.B32;1

Page 7
(3)

68
04 AE 0100
00000000G 00
6A
50
52 D0 000C3
AE 9F 000C6
8F 3C 000C9
04 AE 9F 000CF
02 FB 000D2
08 AE 9F 000D9 6\$:
01 FB 000DC
01 D0 000DF
04 000E2
50 D4 000E3 7\$:
04 000E5

MOVL SAVE_CMD_END, EDT\$\$A_CMD_END
PUSHAB NEW_CMD_BUF
MOVZWL #256, 4TSP)
PUSHAB 4(SP)
CALLS #2, EDT\$\$DEA_HEAP
PUSHAB CMD_DESC
CALLS #1, STR\$FREE1_DX
MOVL #1, R0
RET
CLRL R0
RET

: 0848
: 0852
:
: 0858
: 0859
: 0860
:

; Routine Size: 230 bytes, Routine Base: _EDT\$CODE + 0000

: 262 0861 1
: 263 0862 1 !<BLF/PAGE>

EDT\$GETXLATE
V04-000

EDT\$GETXLATE - Handles the nokeypad XLATE comma
EDT\$\$GETXLATE - nokeypad XLATE command

E 7
16-Sep-1984 00:30:30
14-Sep-1984 12:23:15

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]GETXLATE.B32;1

Page 8
(4)

: 265 0863 1 END
: 266 0864 1
: 267 0865 0 ELUDOM

! of module EDT\$GETXLATE

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	230	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2	0	40	00:00.2
\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:04.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:GETXLATE/OBJ=OBJ\$:GETXLATE MSRC\$:GETXLATE.B32/UPDATE=(ENH\$:GETXLATE)

: Size: 230 code + 0 data bytes
: Run Time: 00:20.3
: Elapsed Time: 00:26.7
: Lines/CPU Min: 2554
: Lexemes/CPU-Min: 7937
: Memory Used: 111 pages
: Compilation Complete

0134 AH-BT13A-SE
VAX/VMS V4.0

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0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199																																		
0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	0260	0261	0262	0263	0264	0265	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276	0277	0278	0279	0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	0290	0291	0292	0293	0294	0295	0296	0297	0298	0299
0300	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310	0311	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325	0326	0327	0328	0329	0330	0331	0332	0333	0334	0335	0336	0337	0338	0339	0340	0341	0342	0343	0344	0345	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357	0358	0359	0360	0361	0362	0363	0364	0365	0366	0367	0368	0369	0370	0371	0372	0373	0374	0375	0376	0377	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	0399
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